

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims:

Listing of Claims:

1. (Currently amended) A fuel supply apparatus comprising:

an air cleaner chamber including an inlet, through which an air is introduced in a first direction, and an outlet, through which the introduced air is led to an engine in a second direction which is different from the first direction,

a rectifying member that rectifies an air current flowing from the inlet in the air cleaner chamber to the outlet,

an injector that is mounted on a casing forming the air cleaner chamber and jets a fuel to the air current flowing from the inlet in the air cleaner chamber to the outlet;

a filter element that is disposed between the inlet and the outlet in the air cleaner chamber, the air passing through the filter element, and

an intake passage projecting into the air cleaner chamber from the outlet and having an opening opened to the air cleaner chamber, the intake passage comprising a throttle valve therein, wherein the air and the fuel in the air cleaner chamber are led to the engine through the intake passage.

2. (Previously presented) The fuel supply apparatus according to claim 1, wherein a flow passage leading to the outlet from the inlet is formed in the air cleaner chamber, and

the rectifying member comprises a rectifying wall extending along the flow passage.

3. (Currently amended) The fuel supply apparatus according to claim 2, wherein the rectifying wall includes a wide portion, of which a width in a first direction perpendicular to that a second direction, in which the rectifying wall extends, is larger than that of the remaining portion.

4. (Previously presented) The fuel supply apparatus according to claim 3, wherein the injector includes an in-chamber portion arranged in the air cleaner chamber,

the rectifying wall is arranged upstream of the in-chamber portion, and

the wide portion of the rectifying wall is positioned at a downstream end of the rectifying wall and has a larger width than that of the in-chamber portion.

5. (Previously presented) The fuel supply apparatus according to claim 3, wherein the injector includes an in-chamber portion arranged in the air cleaner chamber,

the rectifying wall is arranged downstream of the in-chamber portion, and

the wide portion of the rectifying wall is positioned at an upstream end of the rectifying wall and has substantially the same width as that of the in-chamber portion.

6. (Previously presented) The fuel supply apparatus according to claim 3, wherein the injector includes an in-chamber portion arranged in the air cleaner chamber, and

the rectifying wall covers the in-chamber portion, supports the in-chamber portion, and extends downstream of the in-chamber portion from upstream thereof.

7. (Original) The fuel supply apparatus according to claim 2, wherein at least a part of the rectifying wall is in the form of a symmetric blade.

8. (Currently amended) The fuel supply apparatus according to claim 2, wherein a center of the rectifying wall in a first direction perpendicular to that a second direction, in which the rectifying wall extends, is positioned inside the inlet or the outlet.

9. (Previously presented) The fuel supply apparatus according to claim 2, wherein the air cleaner chamber includes a plurality of outlets, and

the rectifying walls are provided in plural corresponding to each of the plurality of outlets, and

the plurality of rectifying walls are arranged to be spaced from one another.

10. (Currently amended) The fuel supply apparatus according to claim 2, wherein a center of the rectifying wall in a first direction perpendicular to that a second direction, in which the rectifying wall extends, is positioned outside the outlet.

11. (Currently amended) The fuel supply apparatus according to claim 10, wherein the air cleaner chamber includes a plurality of outlets, and

a center of the rectifying wall in a first direction perpendicular to that a second direction, in which the rectifying wall extends, is positioned between the plurality of outlets.

12. (Currently amended) The fuel supply apparatus according to claim 1, further comprising a partition provided in the air cleaner chamber to compartment a main chamber, in which a flow passage extending from the inlet to the outlet is formed, and a separate chamber partitioned from the main chamber, the partition being formed with a through-hole, which connects between the separate chamber and the main chamber, and

wherein the injector is supported in the separate chamber by the partition to jet a fuel into the main chamber from the through-hole, and

the rectifying member is formed by the partition.

13. (Original) The fuel supply apparatus according to claim 12, wherein the injector comprises a nozzle inserted into the through-hole, and

further comprising a sealing member to seal a clearance between the through-hole and the nozzle.

14. (Previously presented) The fuel supply apparatus according to claim 1, wherein the filter element purifies the air, and

the rectifying member comprises a rectifying wall extending in a direction intersecting a longitudinal direction of the filter element.

15. (Previously presented) The fuel supply apparatus according to claim 1, wherein the rectifying member comprises a wall surface, by which the air current from the inlet is led to the opening, and

a space is formed radially outwardly of the opening in the intake chamber.

16. (Original) The fuel supply apparatus according to claim 15, further comprising a blow-by gas passage that provides communication between an interior of a crankcase of the engine and the space.

17. (Original) The fuel supply apparatus according to claim 15, wherein the rectifying member comprises a compartment surface that compartments the space.

18. (Original) The fuel supply apparatus according to claim 17, wherein the rectifying member is composed of a rectifying plate projecting toward the opening.

19. (Original) The fuel supply apparatus according to claim 15, wherein a clearance is formed between the rectifying member and the opening in a direction, in which the opening is opened.

20. (Original) The fuel supply apparatus according to claim 15, wherein the injector comprises a nozzle, and

at least a part of the wall surface is positioned downstream of the nozzle and upstream of the opening.

21. (Original) The fuel supply apparatus according to claim 15, wherein the wall surface is positioned on an opposite side to the inlet with the opening as reference.

22. (Previously presented) The fuel supply apparatus according to claim 1, wherein the rectifying member comprises a first wall surface extending toward the opening, and a second wall surface positioned radially outwardly of the opening relative to the first wall surface and separated from an inner surface of the air cleaner chamber.

23. (Original) A vehicle comprising the fuel supply apparatus according to claim 1.

24. (Original) The vehicle according to claim 23, wherein

the outlet is positioned rearwardly of the inlet, and

the rectifying member comprises a rectifying wall extending substantially in a longitudinal direction.

25. (Previously presented) The vehicle according to claim 23, wherein the air cleaner chamber comprises a plurality of outlets aligned in a left and right direction, and

the rectifying member comprises a rectifying wall extending substantially in a longitudinal direction.

26. (Original) The vehicle according to claim 23, wherein the outlet is positioned rearwardly of the inlet, and the rectifying member comprises a rectifying wall extending substantially in a left and right direction.

27. (Previously presented) The vehicle according to claim 23, wherein the air cleaner chamber comprises a plurality of outlets aligned in a left and right direction, and

the rectifying member comprises a rectifying wall extending substantially in a left and right direction.

28. (Currently amended) A fuel supply apparatus comprising:
an air cleaner chamber including an inlet, through which an air is introduced, and a plurality of outlets, through which the introduced air is led to an engine,

a rectifying member that rectifies an air current flowing from the inlet in the air cleaner chamber to the respective outlets,

a plurality of injectors that are mounted on a casing forming the cleaner chamber and jets a fuel to the air current in the air cleaner chamber, and

a plurality of intake passages projecting into the air cleaner chamber from the outlets respectively, and each having an opening opened to the air cleaner chamber, wherein

the rectifying member comprises a plurality of guide walls opposite to the air current passing from the inlet so as to lead the air current to the openings of the intake passages respectively, and a plurality of rectifying walls adjacent to the

guide walls respectively, bulging into the air cleaner chamber more than the guide walls, and covering the injectors respectively.

29. (New) The fuel supply apparatus according to claim 1, wherein the rectifying member covers the injector so as to prevent the injector from making the air current turbulent.

30. (New) The fuel supply apparatus according to claim 1, wherein an injector unit, which includes the injector, a fuel pipe and an electric power supply harness, is mounted on the casing forming the air cleaner chamber, and the rectifying member covers the injector unit so as to prevent the injector unit from making the air current turbulent.